*Chem.-Biol. Interactions*, 72 (1989) 371–372
Elsevier Scientific Publishers Ireland Ltd.



CHEMICO-BIOLOGICAL INTERACTIONS

VOLUME CONTENTS

VOLUME 72 (1989)

---

*Review Article*

Three models of free radical-induced cell injury
by M. Comporti (Sienna, Italy) ..... 1

*Rapid Communication*

Binding of chlorinated benzidines to the rat hepatic aromatic hydrocarbon receptor
by P. Cikryt and P.D. Joseph (Würzburg, F.R.G. and Guelph, Canada) ..... 57

Cell-specific metabolic activation of 7,12-dimethylbenz[*a*]anthracene in rat testis
by A. Georgellis and J. Rydström (Stockholm, Sweden) ..... 65

Inhibition of stage-specific DNA synthesis in rat spermatogenic cells by polycyclic aromatic hydrocarbons
by A. Georgellis, M. Parvinen and J. Rydström (Stockholm, Sweden and Turku, Finland) ..... 79

Functional and biochemical dispositon of 7,12-dimethylbenz[*a*]anthracene in murine lymphoid cells
by L.M. Thurmond, A.N. Tucker, D.E. Rickert, L.D. Lauer and J.H. Dean (Research Triangle Park, NC) ..... 93

Further evidence for photoinduced genotoxicity of dictamnine as shown by prophage induction
by H. Fujita and H. Kakishima (Kanagawa, Japan) ..... 105

Formation, resealing and persistence of DNA breaks produced by 4-demethoxydaunorubicin in P388
by G. Capranico, S. Tinelli and F. Zunino (Milan, Italy) ..... 113

Characterisation of metabolites of the food mutagens 2-amino-3-methylimidazo[4,5-*f*]-quinoline and 2-amino-3,4-dimethylimidazo[4,5-*f*]quinoline formed after incubation with isolated rat liver cells
by J. Alexander, J.A. Holme, H. Wallin and G. Becher (Oslo, Norway) ..... 125

The phenobarbital-type induction of rat liver microsomal monooxygenases by perfluorodecalin
by V.M. Mishin, V.V. Obraztsov, A.Y. Grishanova, N.I. Gutkina, D.G. Shekhtman, O.G. Khatsenko and V.V. Lyakhovich (Novosibirsk and Pushchino, U.S.S.R.) ..... 143

Enhancement of the peroxidase-mediated oxidation of butylated hydroxytoluene to a quinone methide by phenolic and amine compounds
by D.C. Thompson and M.A. Trush (Baltimore, MD) ..... 157

Methylation of DNA by three *N*-nitroso compounds: evidence for sequence specific methylation by a common intermediate
by J.R. Milligan, S.H. Hojatti, L. Catz-Biro and M.C. Archer (Toronto, Canada) ..... 175

Metabolic activation of hydroquinone by macrophage peroxidase
by M.J. Schlosser and G.F. Kalf (Philadelphia, PA) ..... 191

Stereoselective glutathione conjugation of a uricosuric diuretic
by J. Higaki and M. Hirata (Osaka, Japan) ..... 209

The involvement of ionic interactions during asbestos-induced enzyme release from polymorphonuclear leukocytes
by J.G.R. Elferink, M. Deierkauf, J.A. Kramps and H.K. Koerten (Leiden, The Netherlands) ..... 215

*Review Article*
Oxygen radicals in CNS damage
by H.A. Kontos (Richmond, VA) ..... 229

Synergistic induction of rat hepatic ornithine decarboxylase by multiple doses of cobalt chloride
by S. Numazawa, T. Oguro, T. Yoshida and Y. Kuroiwa (Tokyo, Japan) ..... 257
The inhibition of lipid peroxidation by disulfiram prevents the killing of cultured hepatocytes by allyl alcohol, *tert*-butyl hydroperoxide, hydrogen peroxide and diethyl maleate
by M.E. Kyle, A. Serroni and J.L. Farber (Philadelphia, PA) ..... 269
Interaction of ellipticine and an indolo[2,3*b*]-quinoxaline derivative with DNA and synthetic polynucleotides
by I. Zegar, A. Gräslund, J. Bergman, M. Eriksson and B. Nordén (Stockholm and Göteborg, Sweden) ..... 277
Influence of the carcinogenic pollutant benzo[*a*]pyrene on plant development: fern gametophytes
by V. Forrest, T. Cody, J. Caruso and D. Warshawsky (Cincinnati, OH) ..... 295
On the mechanism of the $Mn^{3+}$-induced neurotoxicity of dopamine: prevention of quinone-derived oxygen toxicity by DT diaphorase and superoxide dismutase
by J. Segura-Aguilar and C. Lind (Stockholm, Sweden) ..... 309
Pulegone mediated hepatotoxicity: evidence for covalent binding of *R*(+)-[$^{14}$C]pulegone to microsomal proteins in vitro
by K.M. Madyastha and B. Moorthy (Bangalore, India) ..... 325
Differential effects of glutathione depletion and metallothionein induction on the induction of DNA single-strand breaks and cytotoxicity by *tert*-butyl hydroperoxide in cultured mammalian cells
by T. Ochi and P.A. Cerutti (Kanagawa, Japan and Lausanne, Switzerland) ..... 335
Metallothionein accumulation on CHO $Cd^r$ cells in response to lead treatment
by S.-J. Rhee and P.C. Huang (Baltimore, MD) ..... 347
Announcements ..... 363
Subject Index Volume 72 (1989) ..... 365
Author Index Volume 72 (1989) ..... 369
Contents Volume 72 (1989) ..... 371